Product profile

CN70
CN70e

Ultra-rugged
Mobile Computers

- **Power-packed mobile computing in terms of size, weight and ruggedness**
- **Superior computing performance and application response time**
- **Flexible radio technology provides optimal network coverage and a superior solution for implementing least cost routing strategies**
- **Exceptional battery life for long device run time without extra size and weight**
- **Advanced barcode imaging technology with motion tolerance for snappy scanning and white illumination with laser aiming for high read rates**
- **Brilliant display with extended life touch panel**
- **On-board diagnostics provides device health visibility and reduces downtime**
- **Full compatibility with printers, application software, communications, and a complete set of peripherals and accessories enabling a comprehensive enterprise business solution**
- **Non-Incendive option for hazardous locations**

Intermec®

We Didn't Compromise; Neither Should You

Selecting the optimal rugged mobile business solution that satisfies the needs and preferences of IT, Operations and the device user has often required trade-offs: size vs. ruggedness; weight vs. battery life; support and maintenance of multiple devices and platforms vs. a streamlined, single solution to perform different jobs and functions.

The no-compromise design of the CN70 and CN70e achieves true functional agility with the perfect balance of ruggedness, duty cycle and ergonomics.

The CN70 and CN70e's design is optimized for field mobility environments. Specifically the CN70 is optimal for mobile field service and transportation workers who need power and performance in a compact form factor. The CN70e offers the same power-packed computing but comes with a larger keypad design making it ideal for delivery environments where workers may be wearing gloves or have more data input intensive applications. Extend the use of the CN70 and CN70e into hazardous locations with the non-incentive certified (Div. 2) CN70 and CN70e.

We have also surrounded the CN70 and CN70e with a complete set of intelligent business solution software, tools, services and training modules, delivered by Intermec and our global network of best-in-class reseller and ISV partners, to create the smoothest and smartest possible integration into your workflows.

Every 70 Series mobile computer comes pre-loaded with Intermec's ScanNGo client to provide a premium device provisioning experience to simplify and expedite device staging operations. The standalone ScanNGo client enables CN70 and CN70e users to provision, configure and automatically download application software even over WWAN in a matter of seconds rather than minutes by simply reading pre-configured barcodes.

Every Second Counts

Today's mobile worker is in a race against time and needs to get the job done right – right now. Spotty wireless coverage, weather extremes, damaged barcodes, dimly lit trucks, and heavy device wear and tear are the reality of their day.

The CN70 and CN70e meet these challenges head on with next generation features that save valuable seconds and deliver unparalleled reliability. Intermec's high performance imager provides optimal barcode scanning capabilities even in low light scanning environments and unmatched motion tolerance and laser aiming for the snappiest speeds. These features eliminate costly delays in scan intensive applications.

Scratched and damaged displays, missing or unreadable keys not only slow your workers down, they reflect poorly on your company's image. The no-compromise design of the CN70 and CN70e include an all-light visible VGA display, high durability Gorilla® Glass

touch panel and indestructible keypad technology to ensure that they stay in workers' hands instead of the repair depot.

The 70 Series no-compromise approach includes the option to choose a processor that best fits your needs. The CN70 and CN70e offer two different, industrial grade superscalar multi-engine processors that offer faster performance with lower power consumption. Choose between the TI OMAP3 1GHz or the TI OMAP3 600MHz processor, both offer the speed and reliability expected from the 70 Series.

By combining these latest generation processors along with state-of-the-art battery health diagnostics, the CN70/CN70e can be relied upon to deliver the power and performance you require as well as reduce the expenses associated with replacement batteries.

The CN70 and CN70e extend their no-compromise design to radio connectivity as well. Their wide-area solutions feature a Flexible Network™ data radio that operates on any type of network; offering switch-on-the-fly network selection capability and eliminating the need for multiple pools of devices dedicated to one network. The 70 Series also offer UMTS/HSUPA and CDMA/EV-DO Rev A voice, as well as data, WWAN radio options. Whatever your wide-area communication environment, 70 Series offers an option to meet your needs.

And by combining an ultra-efficient processing architecture with long-life battery technology and state-of-the-art battery health diagnostics, dead batteries and downtime will not only become a thing of the past, but will help improve your businesses' carbon footprint.

Protecting your company's revenue stream as well as finding new revenue sources is the lifeblood of staying competitive.

Intermec's application development resource kits enable you to leverage data from the GPS radio, 5 megapixel auto-focus camera, barcode imager and sensors in innovative ways to develop new services and insights to your field operations.

Prevent a Problem Before It Exists

The pace and competitiveness of business today doesn't allow for missed deadlines. Success depends on your ability to prevent a problem before it impacts your mobile workers' productivity, and ultimately your revenue and customers' satisfaction.

The CN70 and CN70e mobile computers' unique device health reporting capability provides insight never before available to allow mobile workers and IT administrators to monitor and prevent issues before they impact operations. Key sub-systems, including scanning, communications and battery life, can be monitored by either the mobile worker via an on-board dashboard utility or remotely through the SmartSystems™ console, resulting in better utilization of your mobile computing assets.

For customers who want a trusted partner to take over the day-to-day task of managing and troubleshooting their mobile devices and wireless infrastructure, Intermec's INcontrol Managed Services portfolio offers flexible, integrated mobile device and wireless network management services via a hosted web based tool set. Through INcontrol, technical experts from Intermec or one of its qualified PartnerNet members assume these tasks, allowing customers to track assets, secure network investments efficiently, and achieve a lower total cost of ownership (TCO).

Based on a Shared Platform

The CN70 and CN70e are just two models out of four available in the 70 Series family. Each model offers a distinct, purpose-built form factor and includes choices of radios, keypads, imagers, software and services. This provides the ability to tailor a solution specific to each application area within your environment, supporting the preferences and needs of your employees without the added expense of supporting multiple device platforms.

With a single platform approach, the 70 Series family is unique in its ability to deliver the benefits that come with one computer architecture, common system software, one set of peripherals and one docking system to reduce infrastructure complexity and cost.

It brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

Break the Cycle of Infrastructure Replacement

The 70 Series is supported by a new modular docking system designed to maximize your return on investment in charging and communications infrastructure. Called FlexDock, the system uses 2- or 4-position bases, combined with mobile computer and battery cups in any combination that tailor the base to your specific needs.

In addition to desktop or wall mounting, FlexDock offers mounting systems compatible with standard IT equipment racks for better backroom space utilization and smaller footprint requirements.

When it's time to upgrade equipment, cost and complexity are reduced because existing cups can be easily replaced with new cups corresponding to the next generation solution, allowing the original bases and supporting components to be reused.

Expect Reliability

When the reliability, efficiency and accuracy of your operations are the foundation to your competitive advantage, there is no room for compromise. The Intermec 70 Series family of mobile computers provides unparalleled performance and reliability enabling enabling you to run your operations with confidence.

Physical Characteristics
CN70 Dimensions with battery:
L x W x D: 16.9 x 8.0 x 3.4 cm (6.65 x 3.15 x 1.34 in)
Weight: 450 g (15.9 oz) with battery
CN70e Dimensions with battery:
L x W x D: 19.5 x 8.0 x 3.4 cm (7.66 x 3.15 x 1.34 in)
Weight: 491 g (17.3 oz) with battery

Environmental
Operating Temperature: -20° C to +60° C (-4° F to +140° F)*
Storage Temperature: -30° C to +70° C (-22° F to +158° F)
Charging Temperature: +5° C to +35° C (41° F to 95° F)
Relative Humidity: Non-condensing, 95%
Rain & Dust Resistance: IP67

Drop Specification: 2.4 m (8ft.) to concrete per MIL-STD 810G, 1.8m (6 ft) to concrete across operating temperature range per MIL-STD 810G
2,000 (1m) tumbles per IEC 60068-2-32 specification
Electrostatic Discharge: +/- 15 kV air discharge; +/- 8 kV direct discharge

Power
Battery Pack: Battery Pack: 3.7 V, 4000 mAh; IEEE 1725 compliant, Li-Ion, removable, rechargeable

Operating System
Microsoft Windows Embedded Handheld built on Windows 6.5.3 technology

Getting started information:
www.windowsmobile.com/getstarted

Multi-Engine Processor Architecture
Texas Instruments 1GHz OMAP3 multi-engine processor architecture

Texas Instruments 600MHz OMAP3 multi-engine processor architecture

Memory and Storage
Memory: 512 MB RAM, **ROM:** 1 GB Flash
Customer-accessible micro-SD slot for removable memory cards up to 32 GB

Display
- 8.9 cm (3.5 in) Transmissive VGA
- 480 x 640 pixels
- 65,536 (16 bit RGB) Colors
- High-Durability Touch Screen
- LED Backlight
- Ambient Light Sensor

Standard Communications
USB – Full Speed 2.0 Host©, USB – Full Speed 2.0 Client©
IrDA

Software
Device Management: Intermec SmartSystems™ support includes ScanNGo provisioning for use alone or with device management software from Intermec ISVs
Device Health Monitoring: Remote access requires SmartSystem Management option

Application Development: Intermec Developer Library
www.intermec.com/dev

Apps & Components
VERDEX (imaging based data extraction and verification), Mobile Document Imaging (eMDI)

Data Management
Skynax® Mobile Communications

Integrated Radios
Wireless WAN: UMTS / HSUPA
UMTS Frequencies: 800, 850, 900, 1900, 2100 MHz
GSM/GPRS Frequencies: 850, 900, 1800, 1900 MHz
Technology Class: UMTS HSUPA
Max Speeds (Network Dependent): Uplink – 5.76 Mbps
Downlink - 7.2 Mbps
Antenna: Internal

Wireless WAN: CDMA/EVDO Rev. A
CDMA Frequencies: 800, 1900 MHz
Max Speeds (Network Dependent): Uplink – 1.8 Mbps
Downlink – 3.1 Mbps
Antenna: Internal

Wireless LAN: IEEE®802.11 a/b/g/n Dual Band WLAN
Security: WiFi Certified for WPA and WPA2, WAPI Certified
Authentication: 802.1x
Cisco Compatibility: CCXv4
Encryption: WEP (64 or 128 bit), AES, TKIP

Wireless PAN: Integrated Bluetooth® Class II, Version 2.1+EDR
Operating Channels: 0 to 78 (2402-2480 MHz)
Data Rates: 1, 2, 3 Mbps
Antenna: Internal

Global Positioning System
12 channel Integrated GPS; Network independent autonomous mode; supports assisted operation via WAN

Sensor Technology
Accelerometer: Embedded accelerometer enables automatic or application-specific features such as screen rotation or system suspend

Audio Support
Supports VoIP / Speech recognition / Push to talk applications; front and rear speakers; rear speaker >80 dB at 40 cm (15.7 in); Front receiver and front panel microphone for handset audio communication and audio recording; Wireless Bluetooth headset support; Wired headset support via snap on adapter

Integrated Scanner Options
EA30 high performance motion tolerant 2D Imager; white LED illumination; red laser aimer optimized for all lighting conditions; 35 degree downward scan angle; capable of scanning all common 1D and 2D barcodes; 1D as small as 5 mil; PDF as small as 6.6 mil; Data Matrix as small as 7.5 mil; and standard UPC codes from distances up to 33 cm (13 in)

Integrated Camera Option
5 Megapixel auto focus color camera with LED flash

Keypad Options
All keypad options feature hard keycaps with laser-etched legends

CN70: Numeric keypad with backlit shifted plane legends

QWERTY keypad

CN70e: Large numeric keypad with backlit shifted plane legends

QWERTY numeric

Calculator

Intermec Global Services Support:
www.intermec.com --> Support --> Knowledge Central
Telephone support available in the USA & Canada (+1-800-755-5505). Outside of this area, contact your local representative.

Maintain software and device configuration with INcontrol Managed Services. Current listing of all Intermec service products can be found at: www.intermec.com/services

Accessories
FlexDock modular docking system, vehicle dock, vehicle holder, snap on adaptors, removable scan handle, magnetic stripe reader, 6822 full page printer, and PW50 workboard printer

Regulatory Approvals and Compliance
1000CP01, 1000CP01U, 1000CP01C
Safety: cULus Listed, DEMKO, BSMI
EMC: Class B – FCC/ICES/EN, GOST-R
Radio: FCC w/HAC, Industry Canada, CE 0981 Φ, A-tick (AU), C-tick (NZ), NCC, OFTA, IDA, ICASA, POSTEL, NTC, ETA, SIRIM, ANATEL, 61 countries in total
Environmental: EU Directives-WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging

Non-Incendive Version
70 Series family with NI certification
comply with the following:
Suitable for use in Division 2 locations
Safety: cULus Listing - ISA/ANSI 12.12.01
Gases: Class I - Groups A, B, C, D
Dusts: Class II - Groups F, G
Fibers and flyings: Class III
*Max Ambient: 50°C T6

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Intermec SmartSystems™

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